

Introduction

Specialized services for blood and marrow transplantation include both autologous and allogeneic stem cell transplants. The principle underlying stem cell transplantation is the transfer of hematopoietic stem cells after the administration of high dose chemotherapy, with or without radiotherapy. The source of hematopoietic stem cells can be either bone marrow (bone marrow transplants, BMTs) or the peripheral blood (peripheral blood stem cell transplants, PBSCs). The fetal blood harvested from the placenta and umbilical cord is also a stem cell source (cord blood transplants).

Autologous stem cell support/ transplantation (previously referred to as an autologous bone marrow transplant) involves re-infusing intravenously a portion of the patient's own stem cells to rescue the patient and re-establish his/her bone marrow which has been eradicated by high dose chemotherapy/radiotherapy used to destroy malignant cells. Autologous stem cells can be harvested from bone marrow or from circulating blood through the process of pheresis. Tandem transplantation is defined as two or more planned courses of high dose chemotherapy with stem cell support.

Allogeneic stem cell transplantation involves the administration of blood or marrow stem cells from either a family member (usually an HLA matched sibling but on occasions a haploidentical relative) or a matched unrelated donor following administration of chemo/radiotherapy. The genetic disparity between donor and recipient means that allogeneic transplantation is associated with a number of life-threatening complications including graft-versus-host disease, graft rejection and delayed immune reconstitution. Immunologic compatibility between donor and patient is a critical factor for achieving a good outcome. Cord blood donors do not have to be matched as closely as bone marrow or peripheral blood progenitor cell donors.

The following policy contains the minimal criteria for stem cell transplants. Additional justification may be required at the discretion of the Division of Medical Assistance Prior Approval staff.

1.0 Definition of the Procedure

Non-Myeloablative Allogeneic Stem Cell Transplant (Minitransplant, Mini Allograft Reduced Intensity Conditioning) for the Treatment of Malignancies. Non-myeloablative consists of administering lower doses of chemotherapy or radiotherapy followed by allogeneic bone marrow or peripheral blood stem cell administration to destroy malignant cells.

Non-myeloablative therapy is for patients not considered to be candidates for myeloablative transplant i.e., chronic myelogenous leukemia, acute myelogenous leukemia, acute lymphocytic leukemia, Hodgkins disease, non hodgkins lymphoma (all ineligible for conventional allogeneic stem cell support). (Refer to individual policies.)

2.0 Eligible Recipients

2.1 General Provisions

Medicaid eligible individuals with a need for this specialized treatment confirmed by a licensed physician are eligible as long as they meet individual eligibility requirements. Medicaid recipients may have service restrictions due to their eligibility category, which would make them ineligible for this service.

2.2 Special Provisions

Early and Periodic Screening, Diagnostic, and Treatment (EPSDT) is a federal Medicaid requirement that provides recipients under the age of 21 with medically necessary health care to correct or ameliorate a defect, physical or mental illness or a condition identified through a screening examination. While there is no requirement that the service, product or procedure be included in the State Medicaid Plan, it must be listed in the federal law at 42 U.S.C. § 1396d(a). Service limitations on scope, amount or frequency described in this coverage policy do not apply if the product, service or procedure is medically necessary.

The Division of Medical Assistance's policy instructions pertaining to EPSDT are available online at <http://www.dhhs.state.nc.us/dma/prov.htm>.

3.0 When the Procedure is Covered

The N.C. Medicaid program covers non-myeloablative allogeneic stem cell transplant (minitransplant, mini allograft reduced intensity conditioning) for the treatment of malignancies for patients who meet criteria* for high dose chemotherapy and allogeneic stem cell support but cannot tolerate the high doses.

***Note:** Refer to the individual clinical coverage policies, which address high dose chemotherapies.

Each recipient's condition is evaluated on an individual basis. There may be other conditions that are indications for coverage.

4.0 When the Procedure is Not Covered

The N.C. Medicaid program does not cover non-myeloablative allogeneic stem cell support for patients who do not meet criteria for high dose chemotherapy and allogeneic stem cell support because of the following conditions (not all inclusive):

1. Extremes of age.
2. Co-morbidities.
3. Multiple myeloma.
4. Renal cell carcinoma.
5. Solid tumors.
6. History of or active substance abuse - must have documentation of substance abuse program completion plus six months of negative sequential random drug screens.

Note: To satisfy the requirement for sequential testing as designated in this policy, the Division of Medical Assistance (DMA) must receive a series of test (alcohol and drug) results spanning a minimum six-month period, allowing no fewer than a three-week interval and no more than six-week interval between each test during the given time period. A complete clinical packet for prior approval must include at least one documented test performed within one month of the date of request to be considered.

7. Psychosocial history that would limit the ability to comply with medical care pre and post transplant.
8. Current patient and/or caretaker non-compliance that would make compliance with a disciplined medical regime improbable.

Each recipient's condition is evaluated on an individual basis. There may be other conditions that are indications for non-coverage.

5.0 Requirements for and Limitations on Coverage

All applicable N.C. Medicaid policies and procedures must be followed in addition to the ones listed in this procedure.

All procedures must be prior approved by DMA.

If prior approval has been given for stem cell transplants, donor expenses (**procuring, harvesting, short-term storing and all associated laboratory costs**) are covered.

6.0 Providers Eligible to Bill for the Procedure

Physicians enrolled in the N.C. Medicaid program who perform this procedure may bill for this service.

7.0 Additional Requirements

FDA approved procedures, products, and devices for implantation must be utilized.

Implants, products, and devices must be used in accordance with all FDA requirements current at the time of surgery.

A statement signed by the surgeon certifying that all FDA requirements for the implants, products, and devices must be retained in the recipient's medical record and made available for review upon request.

**Division of Medical Assistance
Non-Myeloablative Allogeneic Stem
Cell Transplant (Mini-Transplant,
Mini-Allograft Reduced Intensity
Conditioning) for the Treatment of Malignancies**

**Clinical Coverage Policy No. 11A-12
Original Effective Date: January 1, 1994
Revised Date: December 1, 2005**

8.0 Policy Implementation/Revision Information

Original Effective Date: January 1, 1994

Revision Information:

Date	Section Revised	Change
7/1/05	Entire Policy	Policy was updated to include coverage criteria effective with approved date of State Plan amendment 4/1/05.
9/1/05	Section 2.2	The special provision related to EPSDT was revised.
12/1/05	Section 2.2	The web address for DMA's EDPST policy instructions was added to this section.

Attachment A Claims Related Information

Reimbursement requires compliance with all Medicaid guidelines including obtaining appropriate referrals for recipients enrolled in the Medicaid Managed Care programs.

A. Claim Type

1. Providers bill professional services on the CMS-1500 claim form.
2. Donor expenses are billed on the recipient claim.
3. Hospitals bill for services on the UB-92 claim form.

B. Diagnosis Codes

Providers must bill the ICD-9-CM diagnosis code to the highest level of specificity that supports medical necessity.

C. Procedure Codes

Refer to the individual medical coverage policies, which address high dose chemotherapies for covered codes.

D. Providers must bill their usual and customary charges.